Kohsaku Kawakami

List of Publications by Year
in descending order

99 papers	3,457 citations	159358 30 h-index	143772 57 g-index
104 all docs	104 docs citations	104 times ranked	4160 citing authors

#	Article	IF	Citations
1	Self-Organizing, Environmentally Stable, and Low-Cost Copperâ€“Nickel Complex Inks for Printed Flexible Electronics. ACS Applied Materials & Interfaces, 2022, 14, 8146-8156.	4.0	9
2	Hydrocarbon Penetration into Phospholipid Monolayers Formed at Hydrocarbonâ€“Water Interfaces. Langmuir, 2022, 38, 3720-3728.	1.6	0
3	Domain Sorting in Giant Unilamellar Vesicles Adsorbed on Glass. Langmuir, 2021, 37, 1082-1088.	1.6	1
4	Relevance of Liquid-Liquid Phase Separation of Supersaturated Solution in Oral Absorption of Albendazole from Amorphous Solid Dispersions. Pharmaceutics, 2021, 13, 220.	2.0	9
5	Stabilization mechanism of amorphous carbamazepine by transglycosylated rutin, a non-polymeric amorphous additive with a high glass transition temperature. International Journal of Pharmaceutics, 2021, 600, 120491.	2.6	10
6	Determining the Dependence of Interfacial Tension on Molecular Area for Phospholipid Monolayers Formed at Silicone Oilâ€“Water and Tricaprylinâ€“Water Interfaces by Vesicle Fusion. Langmuir, 2021, 37, 7527-7535.	1.6	2
7	Physicochemical characterization technologies for manipulating new modality products. Drug Delivery System, 2021, 36, 333-333.	0.0	0
8	Biopredictive in vitro testing methods to assess intestinal drug absorption from supersaturating dosage forms. Journal of Drug Delivery Science and Technology, 2020, 56, 101275.	1.4	6
9	Impact of degree of supersaturation on the dissolution and oral absorption behaviors of griseofulvin amorphous solid dispersions. Journal of Drug Delivery Science and Technology, 2020, 56, 101172.	1.4	8
10	Determination of the Coverage of Phosphatidylcholine Monolayers Formed at Silicone Oilâ€“Water Interfaces by Vesicle Fusion. Journal of Physical Chemistry B, 2020, 124, 8719-8727.	1.2	3
11	Importance of Mesoporous Silica Particle Size in the Stabilization of Amorphous Pharmaceuticalsâ€”The Case of Simvastatin. Pharmaceutics, 2020, 12, 384.	2.0	13
12	Correlation between drug dissolution and resistance to water-induced phase separation in solid dispersion formulations revealed by solid-state NMR spectroscopy. International Journal of Pharmaceutics, 2020, 577, 119086.	2.6	17
13	Managing Thermal History to Stabilize/Destabilize Pharmaceutical Glasses. , 2020, , 95-111.		0
14	The 47th Controlled Release Society Virtual Annual Meeting. Drug Delivery System, 2020, 35, 340-341.	0.0	0
15	Interaction Mechanisms of Giant Unilamellar Vesicles with Hydrophobic Glass Surfaces and Silicone Oilâ€“Water Interfaces: Adsorption, Deformation, Rupture, Dynamic Shape Changes, Internal Vesicle Formation, and Desorption. Langmuir, 2019, 35, 16136-16145.	1.6	9
16	Ultraslow Cooling for the Stabilization of Pharmaceutical Glasses. Journal of Physical Chemistry B, 2019, 123, 4996-5003.	1.2	8
17	Crystallization Tendency of Pharmaceutical Glasses: Relevance to Compound Properties, Impact of Formulation Process, and Implications for Design of Amorphous Solid Dispersions. Pharmaceutics, 2019, 11, 202.	2.0	42
18	Effect of Drugâ€“Polymer Interactions through Hypromellose Acetate Succinate Substituents on the Physical Stability on Solid Dispersions Studied by Fourier-Transform Infrared and Solid-State Nuclear Magnetic Resonance. Molecular Pharmaceutics, 2019, 16, 2785-2794.	2.3	31

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19	Cryo-TEM and AFM Observation of the Time-Dependent Evolution of Amorphous Probucol Nanoparticles Formed by the Aqueous Dispersion of Ternary Solid Dispersions. Molecular Pharmaceutics, 2019, 16, 2184-2198.	2.3	32
20	Nucleation and crystallization of celecoxib glass: Impact of experience of low temperature on physical stability. Thermochimica Acta, 2019, 671, 43-47.	1.2	15
21	Phase separation of supersaturated solution created from amorphous solid dispersions: Relevance to oral absorption. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 132, 146-156.	2.0	22
22	Time-dependent phase separation of amorphous solid dispersions: Implications for accelerated stability studies. Journal of Drug Delivery Science and Technology, 2018, 46, 197-206.	1.4	11
23	Pharmaceutical Applications of Thermal Analysis. Handbook of Thermal Analysis and Calorimetry, 2018, , 613-641.	1.6	8
24	Mechanism of Enhanced Nifedipine Dissolution by Polymer-Blended Solid Dispersion through Molecular-Level Characterization. Molecular Pharmaceutics, 2018, 15, 4099-4109.	2.3	28
25	Physical Stabilization of Pharmaceutical Glasses Based on Hydrogen Bond Reorganization under Sub-T_g Temperature. Molecular Pharmaceutics, 2017, 14, 264-273.	2.3	21
26	Crystallization of probucol from solution and the glassy state. International Journal of Pharmaceutics, 2017, 517, 322-328.	2.6	19
27	Synergetic Role of Hypromellose and Methacrylic Acid Copolymer in the Dissolution Improvement of Amorphous Solid Dispersions. Journal of Pharmaceutical Sciences, 2017, 106, 1042-1050.	1.6	41
28	Physicochemical Properties of Solid Phospholipid Particles as a Drug Delivery Platform for Improving Oral Absorption of Poorly Soluble Drugs. Pharmaceutical Research, 2017, 34, 208-216.	1.7	5
29	Supersaturation and crystallization: non-equilibrium dynamics of amorphous solid dispersions for oral drug delivery. Expert Opinion on Drug Delivery, 2017, 14, 735-743.	2.4	41
30	Cyclodextrinâ€“Grafted Chitosans for Pharmaceutical Applications. Trends in Glycoscience and Glycotechnology, 2017, 29, E93-E98.	0.0	4
31	Cyclodextrinâ€“Grafted Chitosans for Pharmaceutical Applications. Trends in Glycoscience and Glycotechnology, 2017, 29, J69-J74.	0.0	0
32	Development of Manufacturing Technology for Porous Particulate Material Composed of Phospholipids. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2016, 24, 40-44.	0.0	0
33	Enthalpy-driven interactions with sulfated glycosaminoglycans promote cell membrane penetration of arginine peptides. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1339-1349.	1.4	17
34	General understanding on physical stability of pharmaceutical glasses. Asian Journal of Pharmaceutical Sciences, 2016, 11, 54-55.	4.3	0
35	Dependence of Intestinal Absorption Profile of Insulin on Carrier Morphology Composed of Î²-Cyclodextrin-Grafted Chitosan. Molecular Pharmaceutics, 2016, 13, 4034-4042.	2.3	18
36	Molecular Assemblies Composed of Phospholipids for Pharmaceutical Formulations. Journal of the Japan Society of Colour Material, 2016, 89, 238-243.	0.0	0

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37	Arginine-Glycosaminoglycan Interaction Regulates Penetration Efficiency of Arginine-Rich Cell-Penetrating Peptides in Biological Membrane. Biophysical Journal, 2015, 108, 82a.	0.2	2
38	Enhanced Boosting of Oral Absorption of Lopinavir Through Electrospray Coencapsulation with Ritonavir. Journal of Pharmaceutical Sciences, 2015, 104, 2977-2985.	1.6	20
39	Surface Effects on the Crystallization of Ritonavir Glass. Journal of Pharmaceutical Sciences, 2015, 104, 276-279.	1.6	21
40	Molecular Complex Composed of Î²-Cyclodextrin-Grafted Chitosan and pH-Sensitive Amphipathic Peptide for Enhancing Cellular Cholesterol Efflux under Acidic pH. Bioconjugate Chemistry, 2015, 26, 572-581.	1.8	21
41	Totally Phospholipidic Mesoporous Particles. Journal of Physical Chemistry C, 2015, 119, 7255-7263.	1.5	10
42	Correlation between Glass-Forming Ability and Fragility of Pharmaceutical Compounds. Journal of Physical Chemistry B, 2015, 119, 4873-4880.	1.2	51
43	Theory and practice of supersaturatable formulations for poorly soluble drugs. Therapeutic Delivery, 2015, 6, 339-352.	1.2	29
44	Studies on the physico-chemical characteristics of collagenâ€“pectin composites. RSC Advances, 2014, 4, 63840-63849.	1.7	17
45	Preparation of polyoligo(ethyleneglycol) methacrylate decorated with pendant cholesterol moieties: Hydrogel and mesoglobule preparation and their use for entrapping lipophilic nanomaterials. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 444, 173-179.	2.3	3
46	Bridging the Difference to the Billionth-of-a-Meter Length Scale: How to Operate Nanoscopic Machines and Nanomaterials by Using Macroscopic Actions. Chemistry of Materials, 2014, 26, 519-532.	3.2	81
47	Self-assembly study and formation of hydrophobized PVA dense and stable nanoparticles loaded with cholesterol or a steroid-type drug. Journal of Colloid and Interface Science, 2014, 428, 57-62.	5.0	3
48	Low-Density Microparticles with Petaloid Surface Structure for Pulmonary Drug Delivery. Journal of Pharmaceutical Sciences, 2014, 103, 1309-1313.	1.6	8
49	Bioinspired nanoarchitectonics as emerging drug delivery systems. New Journal of Chemistry, 2014, 38, 5149-5163.	1.4	128
50	Reaction mediated artificial cell termination: control of vesicle viability using Rh(<scp>i</scp>)-catalyzed hydrogenation. Physical Chemistry Chemical Physics, 2014, 16, 16454-16457.	1.3	0
51	Media-dependent morphology of supramolecular aggregates of Î²-cyclodextrin-grafted chitosan and insulin through multivalent interactions. Journal of Materials Chemistry B, 2014, 2, 1802.	2.9	19
52	Preparation of antibacterial collagenâ€“pectin particles for biotherapeutics. RSC Advances, 2014, 4, 42846-42854.	1.7	16
53	Relationship between Crystallization Tendencies during Cooling from Melt and Isothermal Storage: Toward a General Understanding of Physical Stability of Pharmaceutical Glasses. Molecular Pharmaceutics, 2014, 11, 1835-1843.	2.3	48
54	Fabrication of Solid Collagen Nanoparticles Using Electrospray Deposition. Chemical and Pharmaceutical Bulletin, 2014, 62, 422-428.	0.6	45

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55	Nanoporous Carbon Sensor with Cage-in-Fiber Structure: Highly Selective Aniline Adsorbent toward Cancer Risk Management. ACS Applied Materials & Interfaces, 2013, 5, 2930-2934.	4.0	62
56	Competition of Thermodynamic and Dynamic Factors During Formation of Multicomponent Particles via Spray Drying. Journal of Pharmaceutical Sciences, 2013, 102, 518-529.	1.6	21
57	Preparation of fenofibrate solid dispersion using electrospray deposition and improvement in oral absorption by instantaneous post-heating of the formulation. International Journal of Pharmaceutics, 2013, 450, 123-128.	2.6	43
58	Î²-Cyclodextrin-crosslinked alginate gel for patient-controlled drug delivery systems: regulation of hostâ€“guest interactions with mechanical stimuli. Journal of Materials Chemistry B, 2013, 1, 2155.	2.9	130
59	Emerging pressure-release materials for drug delivery. Expert Opinion on Drug Delivery, 2013, 10, 1465-1469.	2.4	18
60	Practical Approach for Measuring Heat Capacity of Pharmaceutical Crystals/Glasses by Modulated-Temperature Differential Scanning Calorimetry. Chemical and Pharmaceutical Bulletin, 2013, 61, 315-319.	0.6	14
61	Patient-Controlled Drug Delivery System Utilizing Mechanical Stimuli-Responsive Gel Carrier. Drug Delivery System, 2013, 28, 92-98.	0.0	0
62	Supramolecular Approaches for Drug Development. Current Medicinal Chemistry, 2012, 19, 2388-2398.	1.2	26
63	Understanding the Glass-Forming Ability of Active Pharmaceutical Ingredients for Designing Supersaturating Dosage Forms. Journal of Pharmaceutical Sciences, 2012, 101, 3239-3248.	1.6	28
64	Modification of physicochemical characteristics of active pharmaceutical ingredients and application of supersaturatable dosage forms for improving bioavailability of poorly absorbed drugs. Advanced Drug Delivery Reviews, 2012, 64, 480-495.	6.6	216
65	Miscibility analysis of particulate solid dispersions prepared by electrospray deposition. International Journal of Pharmaceutics, 2012, 433, 71-78.	2.6	36
66	Chapter 10. Nanotechnology in Drug Delivery Systems. RSC Nanoscience and Nanotechnology, 2012, , 242-258.	0.2	1
67	Coaxial Electrospray Formulations for Improving Oral Absorption of a Poorly Water-Soluble Drug. Molecular Pharmaceutics, 2011, 8, 807-813.	2.3	70
68	Dynamics of Ribavirin Glass in the Sub-T_g Temperature Region. Journal of Physical Chemistry B, 2011, 115, 11375-11381.	1.2	20
69	Application of Electrospray Deposition for Preparing Nanoparticulate Formulation of Poorly Soluble Drugs. Journal of the Society of Powder Technology, Japan, 2011, 48, 167-172.	0.0	0
70	Layer-by-layer self-assembled shells for drug delivery. Advanced Drug Delivery Reviews, 2011, 63, 762-771.	6.6	404
71	Parallel Thermal Analysis Technology Using an Infrared Camera for High-Throughput Evaluation of Active Pharmaceutical Ingredients: A Case Study of Melting Point Determination. AAPS PharmSciTech, 2010, 11, 1202-1205.	1.5	10
72	Investigation of the dynamic process during spray-drying to improve aerodynamic performance of inhalation particles. International Journal of Pharmaceutics, 2010, 390, 250-259.	2.6	40

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73	Calorimetric investigation of solvent-mediated transformation of sulfamerazine polymorphism. Journal of Pharmaceutical Sciences, 2010, 99, 76-81.	1.6	14
74	One-step preparation of chitosan solid nanoparticles by electrospray deposition. International Journal of Pharmaceutics, 2010, 397, 211-217.	2.6	149
75	Current status of amorphous formulation and other special dosage forms as formulations for early clinical phases. Journal of Pharmaceutical Sciences, 2009, 98, 2875-2885.	1.6	65
76	Design of Highly Dispersive Particles for Pulmonary Drug Delivery. Journal of the Society of Powder Technology, Japan, 2009, 46, 698-703.	0.0	0
77	Nanotechnologies in development of pulmonary drug delivery. Drug Delivery System, 2009, 24, 477-483.	0.0	3
78	Application of liposome technology for inhalation therapy. Drug Delivery System, 2008, 23, 460-466.	0.0	2
79	Reversibility of Enantiotropically Related Polymorphic Transformations from a Practical Viewpoint: Thermal Analysis of Kinetically Reversible/Irreversible Polymorphic Transformations. Journal of Pharmaceutical Sciences, 2007, 96, 982-989.	1.6	64
80	Impact of compression pressure on tablet appearance. International Journal of Pharmaceutics, 2007, 341, 44-49.	2.6	6
81	Isothermal Crystallization of Imwitor 742 from Supercooled Liquid State. Pharmaceutical Research, 2007, 24, 738-747.	1.7	7
82	Solubilization behavior of a poorly soluble drug under combined use of surfactants and cosolvents. European Journal of Pharmaceutical Sciences, 2006, 28, 7-14.	1.9	122
83	Crystallization of sucrose glass under ambient conditions: Evaluation of crystallization rate and unusual melting behavior of resultant crystals. Journal of Pharmaceutical Sciences, 2006, 95, 1354-1363.	1.6	37
84	Application of modulated-temperature DSC to the analysis of enantiotropically related polymorphic transitions. Thermochimica Acta, 2005, 427, 93-99.	1.2	33
85	Calorimetric Investigation of the Structural Relaxation of Amorphous Materials: Evaluating Validity of the Methodologies. Journal of Pharmaceutical Sciences, 2005, 94, 948-965.	1.6	137
86	Effect of Salt Type on Hygroscopicity of a New Cephalosporin S-3578. Pharmaceutical Research, 2005, 22, 1365-1373.	1.7	14
87	Impact of the Amount of Excess Solids on Apparent Solubility. Pharmaceutical Research, 2005, 22, 1537-1543.	1.7	40
88	Solubilization behavior of poorly soluble drugs with combined use of Gelucire 44/14 and cosolvent. Journal of Pharmaceutical Sciences, 2004, 93, 1471-1479.	1.6	60
89	Direct observation of the enthalpy relaxation and the recovery processes of maltose-based amorphous formulation by isothermal microcalorimetry. Pharmaceutical Research, 2003, 20, 1430-1436.	1.7	31
90	Microemulsion formulation for enhanced absorption of poorly soluble drugs. Journal of Controlled Release, 2002, 81, 65-74.	4.8	234

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91	Microemulsion formulation for enhanced absorption of poorly soluble drugs. Journal of Controlled Release, 2002, 81, 75-82.	4.8	159
92	Assessment of amorphous content by microcalorimetry. Journal of Pharmaceutical Sciences, 2002, 91, 417-423.	1.6	32
93	Effect of Hydrophilic Polymers on Physical Stability of Liposome Dispersions. Journal of Physical Chemistry B, 2001, 105, 2374-2385.	1.2	49
94	Determination of the Entrapped Volume of Liposomes: Dilution Method. Analytical Biochemistry, 1999, 269, 139-142.	1.1	8
95	Liposome/Emulsion Transition Induced by Î±-Tocopheryl Acetate. Langmuir, 1999, 15, 7454-7460.	1.6	11
96	Rigidity of Lipid Membranes Detected by Capillary Electrophoresis. Langmuir, 1999, 15, 1893-1895.	1.6	18
97	Compositional Homogeneity of Liposomal Membranes Investigated by Capillary Electrophoresis. Journal of Colloid and Interface Science, 1998, 206, 177-180.	5.0	22
98	Mechanism of protein solubilization in sodium bis(2-ethylhexyl) sulfosuccinate water-in-oil microemulsion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 109, 217-233.	2.3	29
99	Excipients: Oral Drug Delivery. , 0, , 3329-3336.		0